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Cat. No. 13-1277

OWNER'S MANUAL

Please read before using this equipment.

SYSTEM 730

Mini Stereo Component System

with 7-Disc Elevator CD Changer
50-Track Memory and Random Play
AM/FM Stereo Tuner with 24 Presets
Dual Cassettes with CD Synchro
and Hi-Speed Dubbing
5-Inch Speakers
Extended Bass
3 Preset Equalizer Settings
Clock
Wake Timer
Sleep Timer
and Remote Control

OPTIMUS®

FEATURES

Your Optimus System 730 Mini Stereo Component System offers, in one attractive package, all of the features you need for excellent stereo sound and entertainment. The System 730 includes a 7-disc elevator CD changer, AM/FM stereo tuner, dual hi-speed cassette deck, speakers, and a remote control, as well as three preset graphic equalizer controls and several other special features.

CD CHANGER FEATURES

7-Disc Elevator CD Changer — lets you load up to seven CDs and automatically play them one after another.

Automatic Search Music System (ASMS) — lets you quickly locate and play any track on a CD.

Audible Search — helps you locate a particular section of a CD by rapidly playing it in either direction.

Programmable Play — lets you program and play up to 50 tracks in any order.

Random Play — lets you set the System 730 to automatically play the tracks on all CDs in random order.

Repeat Play — lets you automatically repeat the tracks on all CDs or a series of programmed tracks.

CASSETTE DECK FEATURES

Consecutive Play — lets you automatically play two cassette tapes, one after the other.

Multiple Source Recording — lets you record onto a cassette tape from the CD changer, radio, another cassette tape, or from an external microphone (not supplied).

CD Synchro Dubbing — simplifies recording from the CD player to a cassette tape.

Automatic Level Control (ALC) — automatically adjusts the recording level.

Hi-Speed Dubbing — lets you set the System 730 to record cassette tapes at one and a half times the normal speed.

Auto-Stop — automatically stops the cassette tape when it finishes playing, recording, rewinding, or fast-forwarding to protect the tape and tape-handling parts.

Soft Cassette Tape Eject — slowly opens the cassette compartment door when you press the eject button, so the tape does not pop out.

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OTHER SPECIAL FEATURES

Remote Control — lets you control most of the System 730's functions from a distance.

Dual Backlit LCD Displays — clearly displays your system's indicators for easy viewing in almost any lighting condition.

Three Preset Graphic Equalizer Settings — provide common sound settings for enhancing rock, pop, or classical music at the press of a button.

Digital Clock — gives you a digital time display even when the System 730 is turned off.

Memory Tuning — lets you store and easily recall up to 24 of your favorite AM and FM radio stations.

Wake Timer — lets you set the System 730 to automatically turn itself on and play the last selected radio station, CD, or cassette tape.

Sleep Timer — lets you set your system to automatically turn itself off after up to 90 minutes.

Auxiliary Input Jacks — let you connect an additional audio source, such as a TV, VCR, turntable, or an external CD changer or cassette deck, to your system.

Note: The remote control requires two AAA batteries (not supplied) for power.

Read this manual carefully. It will help you get the most enjoyment from your System 730.

For your records, we urge you to record the serial number of your System 730 in the space below. The serial number is located on the back of the system.

Serial Number_____

Warning: To prevent fire or shock hazard, do not expose this product to rain or moisture.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

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Most CDs that can be played on this changer have this mark on them:

Warning: This CD changer employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

Note: Most material on compact discs and prerecorded tapes is copyrighted. Unauthorized duplication of copyrighted material is a violation of the copyright laws of most countries and such duplication may result in fines and/or imprisonment. Note, however, that in the United States, it is not a violation of U.S. copyright laws for a consumer to use an audio recording device to duplicate musical recordings for noncommercial (personal) use.

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PREPARATION

Important: Complete all other connections to the System 730 before you connect it to power.

CONNECTING THE SPEAKERS

1. Press open the pair of terminal tabs marked **MAIN SPEAKERS/ + R –** on the back of the System 730, then insert the right speaker's red wire into the red (+) terminal and its black wire into the black (–) terminal. Then release the tabs.

   Caution: To avoid damaging your system and speakers, never let the speaker wire's bare ends touch each other.

2. Repeat Step 1 to connect the left speaker's wires to the terminals marked **MAIN SPEAKERS/ + L –**.

Note: You can use the set of terminals marked **SURROUND SPEAKER** to connect surround sound speakers (not supplied) to your System 730. Your local Radio Shack sells a wide selection of surround sound speakers.

Speaker Placement

For the best stereo effect, place the speakers so the distance between them is the same as the distance between the listening area and the point halfway between the speakers. You might want to experiment with several locations to find the best one.

Notes:

- If the you place the speakers far apart, you can improve the stereo effect by angling the speakers toward you.
- To increase the bass sound, place the speakers in the corner of the room, against the wall or directly on the floor.
- To decrease the bass sound, move the speakers slightly away from the corner, increase the distance between them, and/or raise them 6 to 8 inches off the floor. You can purchase speaker stands at your local Radio Shack store.

CONNECTING THE FM ANTENNA

To connect the supplied FM antenna, loosen the screw caps on the terminals marked **FM ANTENNA/300Ω** on the back of the System 730, slip the antenna's spade lugs onto the terminals, then tighten the screw caps.

Note: You can use the set of screw caps on the terminals marked **FM ANTENNA/75Ω** to connect a 75Ω FM antenna (not supplied) to your System 730.

CONNECTING AN ADDITIONAL AUDIO SOURCE

To connect an additional audio source to your System 730, such as a TV, VCR, CD changer or cassette deck, plug the audio source's left and right line level audio wires into **INPUT VIDEO L** (left) and **R** (right).

Notes:

- See "Using an Additional Audio Source" to operate an external audio source with the System 730.
- If you connect a turntable to the System 730, the turntable must have a built-in equalizer amplifier.

CONNECTING POWER

To connect power after making all other connections, plug your system's AC cord into a standard AC outlet. STAND-BY/MUTE turns on and **12:00** flashes on the display.

Caution: Your system's AC power cord has a polarized plug (one blade is wider than the other). If you have difficulty inserting the plug into the outlet, do not force it. Turn the plug over and try again.

SETTING THE CURRENT TIME

1. Press **POWER** to turn on the System 730, then press **DISPLAY** once. **TIME** and the last-set time appear on the display.

2. Within 5 seconds, press **HOUR** to change the hour setting or **MINUTE** to change the minute setting.

Notes:

- When changing the hour, be sure to set it the correct AM or PM hour.
- To rapidly advance the hour or minute setting, press and hold **HOUR** or **MINUTE**.
- If **TIME** disappears before you finish setting the hour and minute, start again from Step 1.
- When power is disconnected or interrupted, then restored, the last known time flashes on the display. If this happens, reset the time.

INSTALLING BATTERIES IN THE REMOTE CONTROL

The remote control requires two AAA batteries (not supplied) for power. For the best performance and longest life, we recommend alkaline batteries, such as Radio Shack Cat. No. 23-555.

Caution: Always use fresh batteries of the required size and type.

1. To open the battery compartment cover, slide it in the direction of the arrow.

2. Insert the batteries into the compartment as indicated by the polarity symbols (+ and –) marked inside.

3. Replace the cover.

Notes:

- If you will not be using the remote control for a month or more, remove the batteries.
- You can use the remote control up to a distance of about 20 feet (6.1 meters) in front of the System 730. If it does not operate properly within this distance, replace the batteries.

Warning: Always dispose of old batteries promptly and properly.

CONNECTING HEADPHONES

To listen without disturbing others, you can connect a pair of stereo headphones with a 1/8-inch plug (not supplied) to the System 730. Your local Radio Shack store sells a wide selection of stereo headphones.

To connect headphones, plug the headphone's 1/8-inch plug into the **PHONES** jack on the front of the System 730.

Note: Connecting headphones automatically disconnects the System 730's speakers.

Listening Safely

To protect your hearing, follow these guidelines when you use headphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

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BASIC OPERATION

USING THE DEMONSTRATION FEATURE

To showcase the features of your System 730 and its dual display, press **DEMO**, or press and hold **DISPLAY** for about 2 seconds. The system repeatedly runs a preset program on both displays.

Press **DEMO** or **DISPLAY** to stop the demonstration.

USING THE REMOTE CONTROL

The remote control communicates with your system through the remote sensor located on the front of the system. To use the remote control, be sure that the front end of it is pointing with a clear path toward **SENSOR**, then press the desired button(s).

Note: The buttons on the remote control and the system's front panel operate several of the same functions, although they might be labeled differently. You can use either of these controls to operate the System 730.

Caution: Exposing the remote control or **SENSOR** to direct sunlight or strong lights, such as a spotlight, will reduce the remote control's operating distance and can make it inoperative.

TURNING ON/OFF THE SYSTEM

Press **POWER** to turn on the System 730. STAND-BY/MUTE turns off and the system's last selected settings appear on the displays.

To turn off the system, press **POWER** again. STAND-BY/MUTE turns on.

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SETTING THE SOUND

Adjusting the Volume

To increase the system's volume, turn **VOLUME** toward **MAX**, or press **VOLUME +** on the remote control. To decrease the volume, turn **VOLUME** toward **MIN**, or press **VOLUME –** on the remote control.

Important: To prevent hearing damage, set the volume to its minimum level before playing the radio, a CD, or a cassette tape.

Note: To turn off the sound temporarily, press **MUTE** on the remote control. STAND-BY/MUTE flashes. To resume listening, press **MUTE** again. STAND-BY/MUTE turns off.

Adjusting the Balance

To change the sound balance between the left and right speakers, rotate **BALANCE** toward **L** (left) or **R** (right).

Using Extended Bass (X-Bass)

To enhance the System 730's bass sound, press **X-BASS** (Extended Bass). **X-BASS** appears on the left display. To return to normal bass sound, press it again. **X-BASS** disappears from the display.

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Changing the Preset Graphic Equalizer Settings

The sound produced by your System 730 is delivered over five different sound frequencies — 70 Hz, 300 Hz, 1 KHz, 3.5 KHz, and 10 KHz. You can set the balance of these frequencies using your system's three preset graphic equalizer settings. These settings are designed to give you the best sound for rock, pop, and classical music.

Each time you turn it on, the System 730 automatically uses the last selected graphic equalizer setting. To change the setting, press **ROCK**, **POP**, or **CLASSIC**. **ROCK**, **POP**, or **CLASSIC** appears on the display.

At all times during radio, CD, and cassette play and/or recording, light bars rise and fall on the system's left display to show the current sound level for each of the five frequencies. In addition, a light bar marked **LEVEL** shows the average level of all combined frequencies.

RADIO OPERATION

LISTENING TO THE RADIO

1. Repeatedly press **TUNER** to select the desired band. Select **AM** for AM stations, or **FM1** or **FM2** for FM stations. As you press **TUNER**, **AM**, **FM1** or **FM2** and the last selected station appear on the display.

   Note: You can tune to any FM station when either **FM1** or **FM2** is selected, and you can also store and recall stations in memory in the two FM groups (see "Using Memory Tuning").

2. Press **TUNING UP** or **DOWN**, or **TUNING** s or t on the remote control, to tune to the desired station. As you press the button, the frequency number changes on the display.

To rapidly scan for a station, press **AUTO/MANUAL**, or **O/AUTO** on the remote control, so **AUTO** appears on the display. Then press and hold **TUNING UP** or **DOWN**, or **TUNING** s or t on the remote control, for about 1 second. When you release it, the tuner automatically stops at the next strong station.

To resume manual tuning, press **AUTO/MANUAL**, or **O/AUTO** on the remote control, so **AUTO** disappears.

Notes:

- Each time you press **TUNER** or **TUNING** s or t, the System 730 automatically sets **STEREO/MODE** to **STEREO**. If the broadcast is being received in stereo, **STEREO** appears on the display.

- To improve reception for weak FM stereo stations, press **STEREO/MODE** so **MONO** (monaural) appears on the display. The sound is no longer in stereo, but reception should improve. To return to stereo sound, press **STEREO/MODE**.
- For the best FM reception, fully extend the FM antenna.
- The AM antenna is built-in. To improve AM reception, move or re-position the System 730.

3. Set **VOLUME** (or press **VOLUME +** or **–** on the remote control) to the desired level, and select the desired **X-BASS** and graphic equalizer settings.

USING MEMORY TUNING

You can store and easily recall up to 24 of your favorite AM and FM radio stations (8 AM and 16 FM) in the System 730's memory.

Storing a Station in Memory

1. Press **TUNER** to select **AM**, **FM1**, or **FM2**.
2. Press **TUNING UP** or **DOWN**, or **TUNING** s or t on the remote control, to tune to the desired station.
3. Press **MEMORY**. **MEMORY** appears on the display.
4. Within 3 seconds, press a number (1-8) for the memory location where you want to store the station. **MEMORY** disappears, and **P** (program), the selected memory number, and **STATION** appear on the display. For example, if you select memory number 8, **P8 STATION** appears.

   Note: If **MEMORY** disappears before you press the desired memory number, repeat Steps 3 and 4 then try again.
5. Repeat Steps 2-4 to store up to eight stations each in **AM**, **FM1**, and **FM2**.

Notes:

- You cannot clear a station from memory, but you can store a new one in its place.

- When power is disconnected or interrupted for 50 hours or more, the System 730 loses all of its memory settings.

Recalling a Stored Station

1. Press **TUNER** to select the desired band.
2. Press the desired station's memory number (1-8). **P**, the memory number, **STATION**, and the frequency number appear on the display.

CD CHANGER OPERATION

The System 730 lets you load up to seven CDs at once and gives you many options to control the way it plays them.

Note: You can play a 3-inch CD in your System 730, but you must load it in CD tray position 1 (see “Loading and Playing a CD”).

LOADING AND PLAYING A CD

1. Press **CD**. **CD**, the last selected CD number, and **TRACK 1** appear on the display.

2. To select a CD tray position (1-7), press the corresponding disc number, or press **DISC** then the desired disc number on the remote control. **CD**, the selected position number, and **TRACK 1** appear on the display.

3. Press **OPEN/LOAD**. The CD changer drawer opens.

4. Carefully place a CD in the drawer with the label facing up.

5. To load more CDs (up to seven), simply press the next **DISC NUMBER**. The CD drawer closes, the changer moves to the selected position, then the drawer automatically opens again so you can load the next CD.

   After you have loaded all the CDs, press **OPEN/LOAD** again. The drawer automatically closes.

   Note: A box (□) appears around the disc number on the display when the position is full.

6. To play the last CD you loaded, press **PLAY** ► , or **CD** ► on the remote control.

   To play a different CD, press the desired disc number, or press **DISC** then the disc number on the remote control, to select the CD. Then press **PLAY** ↵ , or press **CD** ↵ on the remote control to begin play.

   ► appears, then the selected CD begins to play, and its elapsed play time appears.

   Notes:

   - To skip over, search, or repeat tracks, see "Special CD Changer Features."
   - To briefly stop play, press **PAUSE** ▮▮ on the main system. ▮▮ appears on the display.

   To resume play, press **PLAY** ↵ , or **CD** ↵ on the remote control. ▮▮ disappears.

7. Set **VOLUME** (or press **VOLUME +** or **–** on the remote control) to the desired level, and select the desired **X-BASS** and graphic equalizer settings.
8. The System 730 automatically stops play at the end of the highest numbered CD loaded in the system. For example, if you have four CDs loaded, play stops automatically at the end of the fourth CD.

   To stop the CD changer at any time during play, press **STOP** ■ , or press **CD** ■ on the remote control. ► and the CD's elapsed play time disappear from the display.

Note: To display the total playing time of a selected CD, press **TIME** on the remote control before or during play. The total playing time appears on the display for about 5 seconds.

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SPECIAL CD CHANGER FEATURES

Automatic Search Music System (ASMS)

The automatic search music system lets you skip forward or backward through the tracks on all loaded CDs.

- To skip to the beginning of the next track, press and release **>>|**, or **CD >>|** on the remote control.
- To return to the beginning of the current track, press and release **|<<**, or **CD |<<** on the remote control.
- To skip backward or forward through additional tracks, repeatedly press and release **|<<** or **>>|**, or **CD |<<** or **>>|** on the remote control, until the desired track number appears on the display.

Audible Search

To search backward or forward during play, press and hold down **|<<** or **>>|**, or **CD |<<** or **>>|** on the remote control. The CD rapidly advances and you hear the music at a high speed and low volume.

Release the button to resume normal play.

Random Play

The System 730 lets you set the CD changer to play the tracks on all CDs in random order.

1. With at least one CD in the CD changer and no CD playing, press **RANDOM** on the main system. **RANDOM**., ►, and the first randomly selected disc and track number appear on the display. Then the track begins to play, and its elapsed play time appears.

Notes:

- To skip to the next randomly selected track, press **RANDOM** again.
- You can search forward or backward on the current disc or repeat all tracks during random play.

2. To briefly stop random play, press **PAUSE** ▮▮ on the main system. ▮▮ appears on the display. To resume play, press **PLAY** ► , or **CD** ► on the remote control. ▮▮ disappears.
3. The System 730 automatically stops random play after it has played all tracks on all loaded CDs. To stop the CD changer at any time during random play, press **STOP** ■ , or **CD** ■ on the remote control. **RANDOM**, ► , and the CD's elapsed play time disappear from the display.

Repeat Play

The System 730 lets you continuously repeat all tracks on all loaded CDs or an entire programmed sequence.

To continuously repeat the tracks on all loaded CDs, press **REPEAT** before or during play so **REPEAT** appears on the display.

To continuously repeat an entire programmed sequence, first program the tracks you want to play (see "Programmed Play"), then press **REPEAT** before or during play so **REPEAT** appears on the display along with **MEMORY**.

To cancel repeat play before, during, or after play, press **REPEAT** so **REPEAT** disappears from the display. If repeat is cancelled during play, the CD changer resumes normal play.

Cue

To select a track before you begin play or after pressing **PAUSE** ▮▮ on the main system, press **I<<** or **>>I** or **CD I<<** or **>>I** on the remote control, until the desired track number appears on the display. Then press **PLAY** ► , or **CD** ► on the remote control, to play the track.

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PROGRAMMED PLAY

You can program the CD changer to play up to 50 tracks in any order you choose, and you can program the same CD and/or track to play more than once.

Storing/Playing a Programmed Sequence

1. With at least one CD in the CD changer and no CD playing, select a CD by pressing the corresponding disc number (1-7), or press **DISC** then the desired number on the remote control. **CD**, the selected CD number, and **TRACK 1** appear on the display.

2. Track 1 of the current CD is automatically selected. To select a different track, press **I<<** or **>>I** on the main system, or **CD I<<** or **>>I** or the desired track number on the remote control. As you press it, the track number changes on the display.

3. To store the selected track, press **MEMORY** on the remote control. **MEMORY** flashes for about 4 seconds, then lights steadily, and **P-01** (the program position number) appears for about 10 seconds.

   Note: If you pressed the desired track number on the remote control, the track number flashes on the display and you must press **MEMORY** within 4 seconds. If the track number stops flashing before you press **MEMORY**, repeat Step 2 then try again.

4. Repeat Steps 1-4 to store up to 50 tracks.

   Note: If you try to store more than 50 tracks, **FULL** appears on the display.

5. Press **PLAY ►** , or **CD ►** on the remote control, to play the programmed sequence. ►, **P-01**, and the first programmed CD and track number appear. Then the CD's elapsed play time appears, and the first track begins to play.

   Note: To briefly stop programmed play, press **PAUSE ▮▮** on the main system. ▮▮ appears on the display. To resume programmed play, press **PLAY ►** , or **CD ►** on the remote control. ▮▮ disappears.

6. Programmed play automatically stops at the end of the last programmed track. To stop the CD changer at any time during programmed play, press and release **STOP ■** , or press **CD ■** on the remote control. ► and the CD's elapsed play time disappear from the display.

Notes:

- Press **PLAY ►** , or **CD ►** on the remote control, to play the programmed sequence again.
- To replace a programmed track, press **RECALL** on the remote control until the memory number of the track you want to replace appears on the display. Then repeat Steps 1-3 to store a new track.
- To resume regular or random play after storing a programmed sequence, you must first erase the programmed sequence (see "Erasing a Programmed Sequence").

Reviewing a Programmed Sequence

To review a programmed sequence, while play is stopped, repeatedly press **RECALL** on the remote control. As you press it, the CD, track number, and memory position of each stored track appears.

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Erasing a Programmed Sequence

To erase an entire programmed sequence, while play is stopped, press and hold **STOP** ■, or **CD** ■ on the remote control, for at least 2 seconds. **MEMORY** disappears from the display.

Notes:

- If you remove a CD, the CD changer automatically skips that disc's tracks in the sequence.
- When power is disconnected or interrupted for 50 hours or more, any programmed sequence is entirely erased.

CD AND CD CHANGER CARE TIPS

Although a CD is very durable, you should handle it with care. We recommend the following precautions.

- Keep the CD in its protective case or sleeve when you are not playing it.
- Keep the CD clean. Your local Radio Shack store sells a suitable CD cleaner kit.
- Keep the CD dry. A drop of moisture can act as a lens and affect the laser beam's focus. If it gets wet, wipe the CD with a soft, dry cloth before playing it.
- Do not write on either side of a CD, especially the non-label side.
- Handle the CD by its edges to avoid fingerprints and surface scratches, which can prevent the laser from accurately reading the CD. If the CD gets scratched, use Scratch 'n' Fix (Radio Shack Cat. No. 42-127) to keep the CD from skipping during play.
- Do not store CDs in high-temperature, high-humidity locations.

If the System 730 is subjected to a sudden shock or jolt during play, the CD's rotation speed might suddenly change, and the music might be briefly interrupted. This is not a malfunction.

Cautions:

- To avoid damaging the CD changer, do not place anything but a CD in the CD drawer.
- Remove any loaded CDs from the CD changer before moving the System 730 to prevent damaging the CDs.
- Moving the CD changer suddenly from a cold place to a warmer one can cause moisture to form on the pickup lens and disrupt operation. If this happens, wait about 2 hours before playing a CD.

CASSETTE DECK OPERATION

The System 730 has a dual cassette deck system which lets you automatically play two cassette tapes consecutively, record from the CD changer, record one cassette tape onto another, and more.

Notes:

- The remote control does not operate the System 730's cassette deck.
- The System 730's Automatic Level Control (ALC) feature automatically adjusts the recording level. The settings of **VOLUME**, **X-BASS**, and **ROCK**, **POP**, or **CLASSIC** have no effect on the recording.
- Tape quality greatly affects the quality of the recording. We recommend regular length (60- or 90-minute) cassette tapes. We do not recommend long-play cassette tapes, such as C-120s, because they are thin and can easily tangle in the cassette mechanism. For low-noise, wide-range recordings, use normal-bias tape.
- Before you load a cassette tape for recording, turn the cassette's hub with your finger or a pencil to take up any slack and move the tape past its leader. (Avoid touching the tape with your fingers.)
- Before recording, be sure the cassette tape's erase-protection tabs are in place. See "Preventing Accidental Erasure."

LOADING A TAPE

1. Press **STOP/EJECT** on the desired tape deck (TAPE 1 or TAPE 2) to open the cassette compartment door.

   Note: TAPE 1 only plays prerecorded cassette tapes. TAPE 2 both plays back and records.

2. Insert the cassette tape into the tape guides with the exposed tape edge facing down, the side you want to play facing you, and the full reel to the left.

3. Close the door.

PLAYING A TAPE

1. Press **TAPE**. **TAPE** appears on the display.

2. Press **PLAY**. The tape begins to play.

   Note: To briefly stop the tape during playback, press **PAUSE**. The button locks and the tape stops. Press **PAUSE** again to continue playback.

3. Set **VOLUME** (or press **VOLUME +** or **–** on the remote control) to the desired listening level, and select the desired **X-BASS** and graphic equalizer settings.

4. The System 730 automatically stops the tape when it reaches the end. To stop the tape at any time during playback, press **STOP/EJECT**.

Consecutive Play

You can set the System 730 to automatically play the first side of the cassette tape in each deck, one after the other.

1. Load the first cassette tape you want to play into TAPE 1, and the other into TAPE 2. Be sure the side of each tape you want to play is facing out.

2. Press **PLAY** on TAPE 1. The tape in TAPE 1 begins to play.

3. Press **PAUSE**, then **PLAY** on TAPE 2. Both buttons lock.

When the tape in TAPE 1 reaches the end, the tape in TAPE 2 automatically begins to play.

Note: To briefly stop the tape in either deck during playback, press **PAUSE** on the desired deck. The button locks and the tape stops. Press **PAUSE** again to continue playback.

4. At the end of the tape in TAPE 2, the system automatically stops the tape. To stop playback on either deck at any time, press **STOP/EJECT** on that deck. **PLAY** releases.

Notes:

- If you press **STOP/EJECT** on TAPE 1 during consecutive play, the tape in TAPE 2 automatically begins to play.
- To rapidly fast-forward or rewind a cassette tape in either deck while the tape is stopped, press **FAST-F** or **REWIND**. The button locks and the tape fast-forwards or rewinds.

The System 730 automatically stops the tape when it reaches the end. To stop the tape at any time during fast-forwarding or rewinding, press **STOP/EJECT**.

RECORDING ONTO A CASSETTE TAPE

The System 730 lets you record onto a cassette tape from the CD changer, radio, another cassette tape, or from an external microphone (not supplied).

Note: You can also record from an additional audio source (see “Recording from an Additional Audio Source”).

Caution: Never try to force down **RECORD** after you remove an erase-protection tab from a cassette tape (see “Preventing Accidental Erasure”). You might damage the tape mechanism.

Recording from a CD

Follow these steps to record from a CD onto a cassette tape.

1. Press **CD**. **CD**, the last selected CD number, and **TRACK 1** appear on the display.

2. Load the CD(s) you want to record into the CD changer.

3. Load a blank cassette tape, or one you want to record over, into TAPE 2.

4. To record the tracks from all loaded CDs in order, press the disc number of the first CD you want to begin recording, or press **DISC** then the number on the remote control.

   To record only selected tracks or change the sequence of the tracks, you must first program the desired sequence.

5. To automatically start the CD and begin recording at the same time (synchronously), press **RECORD** on TAPE 2. **PLAY** automatically locks down with **RECORD**, and ► appears. Then the first selected CD or programmed track begins to play, its elapsed play time appears, and the tape begins recording.

   Note: To briefly stop the tape while recording, press **PAUSE** on TAPE 2. The button locks and the tape stops. Press **PAUSE** again to resume recording.

   To briefly stop the CD while recording, press **PAUSE** ▮▮ on the main system. ▮▮ appears on the display. To resume play, press **PLAY** ► , or press **CD** ► on the remote control. ▮▮ disappears.

6. To listen to the CD during recording, adjust **VOLUME** (or press **VOLUME +** or **–** on the remote control) to the desired listening level, and select the desired **X-BASS** and graphic equalizer settings.

7. The System 730 automatically stops the tape when it reaches the end. To stop the tape at any time during recording, press **STOP/EJECT** on TAPE 2.

   To stop the CD during or after recording, press **STOP** ■ on the CD changer, or press **CD** ■ on the remote control.

   Note: The System 730 automatically stops the CD changer when it reaches the end of all loaded CDs or the programmed sequence. If the tape is still recording, press **STOP/EJECT** on TAPE 2 to stop the tape.

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Copying Cassette Tapes

The System 730 lets you dub (copy) one cassette tape to another, one side at a time, using its dual cassette decks (TAPE 1 and TAPE 2).

1. Load a blank cassette tape, or one you want to record over, into TAPE 2.
2. Load the tape you want to record from into TAPE 1.
3. Press **PAUSE**, then **RECORD** on TAPE 2. **PLAY** automatically locks down with **RECORD** and **PAUSE**.
4. To record at one and a half times the normal speed, press **HI-SPEED**. **HI-SPEED** appears on the display. To set it back to normal speed, press **HI-SPEED** again. **HI-SPEED** disappears.
5. Press **PLAY** on TAPE 1. The tape in TAPE 1 begins to play, **PAUSE** automatically releases on TAPE 2, and TAPE 2 begins to record.
6. To listen to the tape in TAPE 1 during recording, adjust **VOLUME** (or press **VOLUME +** or **–** on the remote control) to the desired listening level, and select the desired **X-BASS** and graphic equalizer settings.

   Note: If you use **HI-SPEED** during recording, you hear the sound at one and a half times the normal speed.
7. To briefly stop the tape in either deck while recording, press **PAUSE** on that deck. The button locks and the tape stops. Press **PAUSE** again to resume recording.
8. The System 730 automatically stops the tape in each deck when the tape reaches the end of the side.

   To stop the tape in either deck at any time during recording, press **STOP/EJECT** on that deck.

Notes:

- If you press **STOP/EJECT** on TAPE 1, **PLAY** releases on that deck, but recording on TAPE 2 continues.
- If you press **STOP/EJECT** on TAPE 2, **PLAY** and **RECORD** release, and recording stops.

Recording from the Radio

The System 730 lets you record onto a cassette tape from any AM or FM radio station. You can also set it to automatically turn on at a preset time and begin recording from the radio.

1. Repeatedly press **TUNER** to select the desired band, then select the desired station.
2. Load a blank cassette tape, or one you want to record over, into TAPE 2.
3. Press **PAUSE** then **RECORD** on TAPE 2. **PLAY** automatically locks down with **RECORD** and **PAUSE**.
4. Release **PAUSE** on TAPE 2 to begin recording.

   Note: To briefly stop the tape while recording, press **PAUSE** on TAPE 2. The button locks and the tape stops. Press **PAUSE** again to resume recording.
5. To listen to the radio during recording, adjust **VOLUME** (or press **VOLUME +** or **–** on the remote control) to the desired listening level, and select the desired **X-BASS** and graphic equalizer settings.
6. The System 730 automatically stops the tape when it reaches the end. To stop the tape at any time during recording, press **STOP/EJECT** on TAPE 2. **RECORD** and **PLAY** release, and recording stops.

To set your System 730 to automatically begin recording from the radio at a preset time, first set and turn on the wake-up timer (see “Setting a Wake Time”).

Then follow Steps 1-3 above, press **POWER** to turn off the system, then release **PAUSE** on TAPE 2. At the preset wake up time, your system automatically turns itself on and imme-

diately begins recording from the radio.

Recording from an External Microphone

The System 730 lets you record onto a cassette tape using an external microphone with a 1/8-inch plug (not supplied), such as Radio Shack Cat. No. 33-2001.

Note: The system also lets you hear sound from an external microphone combined with sound from the radio, a prerecorded CD or cassette, or an additional audio source (see "Using an External Microphone").

1. Plug the microphone's 1/8-inch plug into **MIC** on the front of the System 730.

2. Press **TAPE**. **TAPE** appears on the display.

3. Load a blank cassette tape, or one you want to record over, into TAPE 2.

4. Press **PAUSE** then **RECORD** on TAPE 2. **PLAY** automatically locks down with **RECORD** and **PAUSE**.

5. Press **PAUSE** on TAPE 2 to begin recording. Any sound captured by the external microphone is recorded on the tape.

   Notes:

   - Follow any instructions provided with the external microphone for placement of the microphone to achieve the best recording results.
   - To briefly stop the tape while recording, press **PAUSE** on TAPE 2. The button locks and the tape stops. Press **PAUSE** again to resume recording.

6. To increase the volume of the microphone's sound input, turn **MIXING** toward **MAX**. To decrease it, turn it toward **MIN**.

7. To hear the sound being recorded, adjust **VOLUME**, or press **VOLUME +** or **–** on the

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remote control, to the desired level.

8. The System 730 automatically stops the tape when it reaches the end. To stop the tape at any time during recording, press **STOP/EJECT** on TAPE 2. **RECORD** and **PLAY** release, and recording stops.

TAPE TIPS

Erasing a Cassette Tape

To record over a cassette tape, simply record over the previous recording.

Note: The tape you are recording over must be a normal bias-type tape.

To quickly erase a tape, you might prefer to use a bulk tape eraser, such as Radio Shack Cat. No. 44-232.

Preventing Accidental Erasure

Cassette tapes have two erase-protection tabs — one for each side.

To protect a recording from being accidentally recorded over or erased, break off that side's plastic tab with a screwdriver.

If you break off a tab and decide later that you want to record on that side of the tape, carefully cover only the tab hole for that side of the cassette with a piece of adhesive tape.

Caution: Removing the erase-protection tab does not prevent a bulk eraser from erasing a cassette tape.

Restoring Tape Tension and Sound Quality

After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each side of the cassette's outer shell on a flat surface.

Caution: Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

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USING AN ADDITIONAL AUDIO SOURCE

If you connected an additional audio source, such as a TV, VCR, turntable, or an external CD changer or cassette deck, you can use your System 730 to listen to or record from that source.

LISTENING TO AN ADDITIONAL AUDIO SOURCE

1. Set **VOLUME** (or press **VOLUME –** on the remote control), to its lowest setting, and be sure that the audio source's volume control (if any) is also set to its lowest level.
2. Press **VIDEO AUX**, or **VIDEO** on the remote control. **VIDEO** appears on the display.
3. Operate the audio source according to its owner's manual.
4. Set **VOLUME** (or press **VOLUME +** or **–** on the remote control) and the audio source's volume control (if any) to the desired listening level.

RECORDING FROM AN ADDITIONAL AUDIO SOURCE

To record onto a cassette tape from an additional audio source, follow the steps in "Recording from the Radio," with the following changes:

- In Step 1, press **VIDEO AUX**, or **VIDEO** on the remote control, so **VIDEO** appears on the display.
- Begin play on the additional audio source as instructed in its owner's manual after you release **PAUSE** to begin recording.

SPECIAL FEATURES

SETTING A WAKE UP TIME

Like an alarm clock, you can set your system to automatically turn itself on and play the last selected radio station, CD, or cassette tape.

1. Press **DISPLAY** three times. **TIME** and the last-set wake-up time appear, and **WAKE-UP** flashes on the display.

2. Within 5 seconds, press **HOUR** to change the hour setting or **MINUTE** to change the minute setting.

   Notes:

   - When changing the hour, be sure to set it to the correct AM or PM hour.
   - If **TIME** disappears before you finish setting the hour and minute, start again from Step 1.

3. To turn on the wake-up timer, within 5 seconds, press **STEREO/MODE**. **WAKE-UP** lights steadily on the display.

   Note: If **TIME** disappears before you press **STEREO/MODE**, repeat Steps 1 and 3 again.

4. Select the desired radio station, CD, or cassette tape you want the System 730 to play when it turns itself on.

   Note: If you selected a cassette tape, be sure to press **PLAY** and **PAUSE** on the appropriate deck (TAPE 1 or 2).

5. Set **VOLUME** (or press **VOLUME +** or **–** on the remote control) to the desired listening level, and select the desired **X-BASS** and graphic equalizer settings.

6. Press **POWER** to turn off the System 730. STAND-BY/MUTE turns on, then the current time and **WAKE-UP** appear dimly lit on the display.

Notes:

- If you selected a cassette tape, be sure to release **PAUSE** on the selected deck after you turn off the system.
- To turn off the wake-up timer, repeat Steps 1 and 3. **WAKE-UP** flashes then disappears from the display to indicate that the timer is turned off.
- Until you turn off the wake-up timer, the System 730 automatically turns itself on every day at the preset wake-up time and plays the last selected radio station or CD. If no CD is loaded in the last selected CD position, the system automatically selects the next CD.

SETTING THE SLEEP TIMER

You can set the System 730 to automatically turn itself off up to 90 minutes from the time you set it.

1. Press **DISPLAY** twice. **TIME** and **00** appear, and **SLEEP** flashes on the display.

2. Within 5 seconds, repeatedly press **STEREO/MODE** until the desired sleep time is displayed.

   The first time you press **STEREO/MODE**, **SLEEP** lights steadily and **90** appears, indicating the System 730 is set to turn itself off in 90 minutes.

Each additional time you press **STEREO/MODE**, the sleep time decreases by 10 minutes.

Note: If **TIME** disappears from the display before you finish setting the sleep time, repeat Steps 1-2 again.

3. The System 730 remains on for the length of sleep time selected, then automatically turns itself off.

   To turn off the system before the sleep time has elapsed on the display, press **POWER**.

   To turn off the sleep timer and continue using the System 730, repeat Steps 1 and 2 and choose a sleep time of 00 in Step 2.

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USING AN EXTERNAL MICROPHONE

The System 730 lets you connect and hear sound from an external microphone combined with sound from the radio, a prerecorded CD or cassette, or an additional audio source.

1. Plug the microphone's 1/8-inch plug into **MIC** on the front of the System 730.
2. Start play on the audio source you want to accompany the microphone.
3. Set **VOLUME** (or press **VOLUME +** or **–** on the remote control) to the desired level, and select the desired **X-BASS** and graphic equalizer settings.
4. Speak or sing into the microphone to hear your voice combined with the sound from the selected audio source.

5. To increase the volume of the microphone's sound input, turn **MIXING** toward **MAX**. To decrease it, turn it toward **MIN**.

MAINTENANCE

Your Optimus System 730 Mini Stereo Component System is an example of superior design and craftsmanship. The following suggestions will help you care for your System 730 so you can enjoy it for years.

Keep the System 730 dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.

Handle the System 730 gently and carefully. Dropping it can damage circuit boards and cases and can cause the System 730 to work improperly.

Use and store the System 730 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.

Keep the System 730 away from dust and dirt, which can cause premature wear of parts.

Wipe the System 730 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the System 730.

Modifying or tampering with the System 730's internal components can cause a malfunction, might invalidate its warranty, and void your FCC authorization to use it. If your System 730 s not performing as it should, take it to your local Radio Shack store for assistance.

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THE FCC WANTS YOU TO KNOW

This stereo system complies with the limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio and TV interference in a residential area. However, your stereo system might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures:

- Reorient or relocate the receiving antenna
- Increase the distance between the stereo system and the radio or TV
- Use outlets on different electrical circuits for the stereo system and the radio or TV

Consult your local Radio Shack store if the problem still exists.

You must use shielded interface cables with this stereo system.

CLEANING THE TAPE-HANDLING PARTS

Dirt, dust or particles of a cassette tape's coating can accumulate on the cassette deck tape heads, and other parts that the tape touches. This can greatly reduce the performance of the cassette decks. Use the following cleaning procedure for each deck after every 20 hours of tape player operation.

1. Be sure the system is off, then disconnect power.
2. Open the cassette compartment door on each deck.
3. Press **PLAY** to expose the tape-handling parts.
4. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean each deck's record or play head, pinch roller, capstan and erase head.
5. When you finish cleaning, close each deck's cassette compartment door and reconnect power.

Your local Radio Shack store sells a complete line of cassette deck cleaning supplies.

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SPECIFICATIONS

Cassette Deck

Tape Speed $1^{7}/_{8}$ ips

Wow and Flutter 0.35% WRMS

Frequency Response (at -3 dB) 100 Hz–8 kHz

Recording System AC Bias

Erase System AC

CD Changer

Number of Programmable Tracks 50 Tracks

Frequency Response (at – 3 dB) 50 Hz–20 kHz

Dynamic Range 82 dB

Signal-to-Noise (JIS-A) 60 dB

Harmonic Distortion (at 1 kHz) .1%

Separation (at 1 kHz) 40 dB

Sampling Frequency 44.1 kHz

Quantization Number . 16-Bit Linear/ Channel

Oversampling 4 Times

Pick-Up System 3 Beam

Optical Source Semiconductor Laser

Wavelength 760–820 nm

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General

Power Supply120V AC 60 Hz, 90W

Tuning RangeAM: 530–1710 kHz
FM: 88–108 MHz

Speaker Size $5^{1}/_{4}$ Inches

Impedance of Microphone Jack 600 Ω

Impedance of (Stereo) Headphones Jack 16–32 Ω

Power Output 10 Watts per Channel

Remote Control Power 2 AAA Batteries (Cat. No. 23-555)

Dimensions of Unit $13^{15}/_{16}$ x $10^{15}/_{16}$ x $11^{1}/_{16}$ Inches (HWD)
(354 × 278 × 281 mm)

Dimensions of Speakers . $13^{15}/_{16}$ x $7^{13}/_{16}$ x $6^{9}/_{16}$ Inches (HWD)
(354 × 198 × 167 mm)

Weight $24^{1}/_{4}$ lbs (11 Kg)

Included Accessories.Remote Control
FM Antenna (300 Ω)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

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NOTES

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RADIO SHACK LIMITED WARRANTY

This product is warranted against defects for 90 days from date of purchase from Radio Shack company-owned stores and authorized Radio Shack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your Radio Shack sales slip** as proof of purchase date to any Radio Shack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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